



Power supplies
equipment and systems

#wearePremium



summary

About us

All our products are Born and Made in Barcelona

Our values

Innovation | Excellence | Transparency | Flexibility | Passion

Key figures

Markets

Territory

Partners worldwide

Products and solutions

Standard products

Custom made solutions

Custom Solutions ' Examples

Documentation

R&D Department

Facilities

Quality

Some of our customers



About us

Premium, S.A. was founded in 1981 and for over 40 years it has been engaged in the **design and manufacture** of Power Conversion Systems.

We create products that require **high-quality, reliability, and robustness** and are able to do so from scratch.

Our experience and know-how allow us to work with the most demanding markets.



BORN AND MADE IN BARCELONA. POWERING THE WORLD

Our values



Innovation

We are up to date with technological advances



Excellence

We are customer and results oriented



Transparency

Our results are shared with all team members



Flexibility

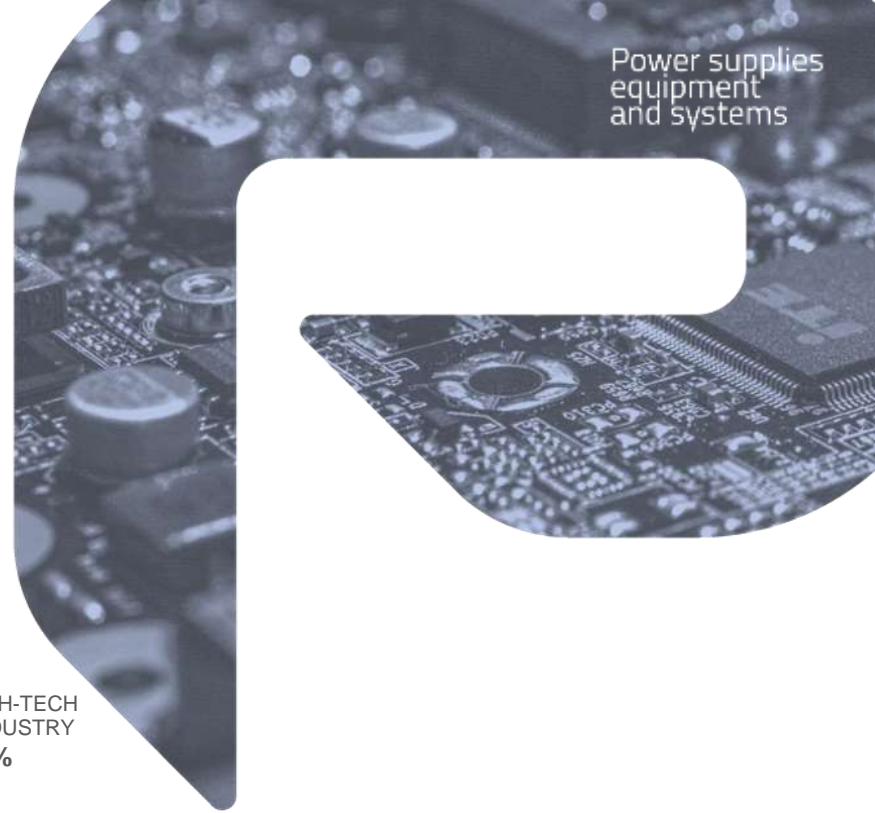
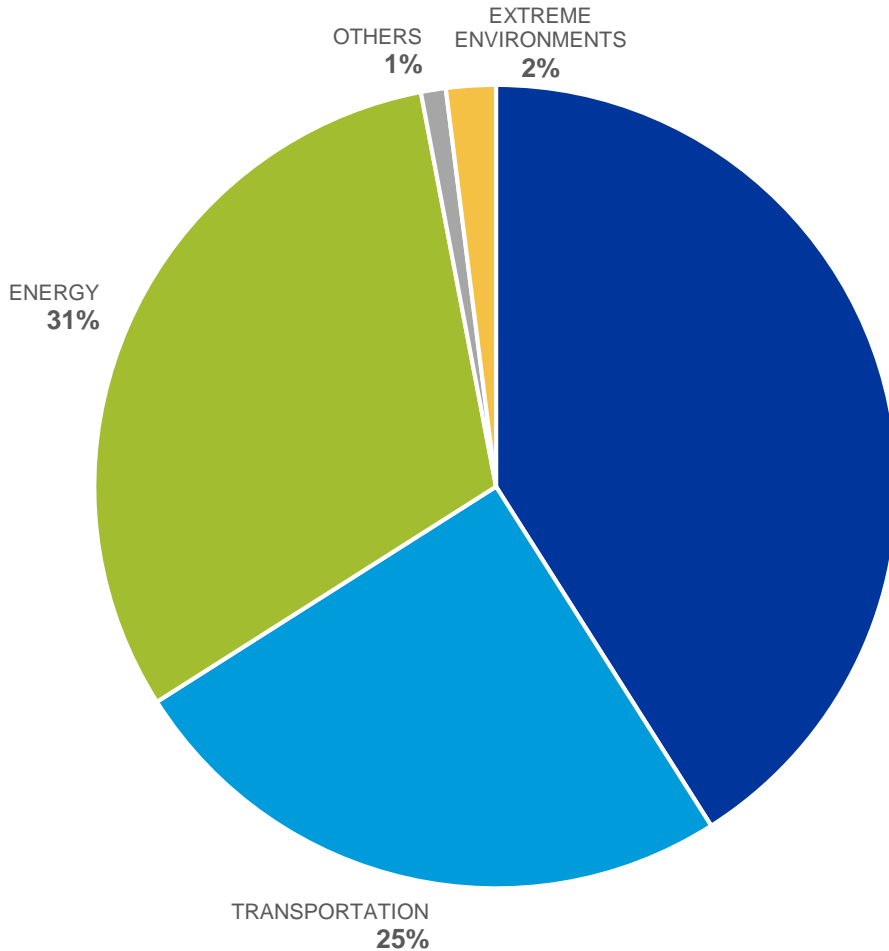
We easily adapt to changes and improvements



Passion

We enjoy every phase of what we do

Markets



Power supplies
equipment
and systems

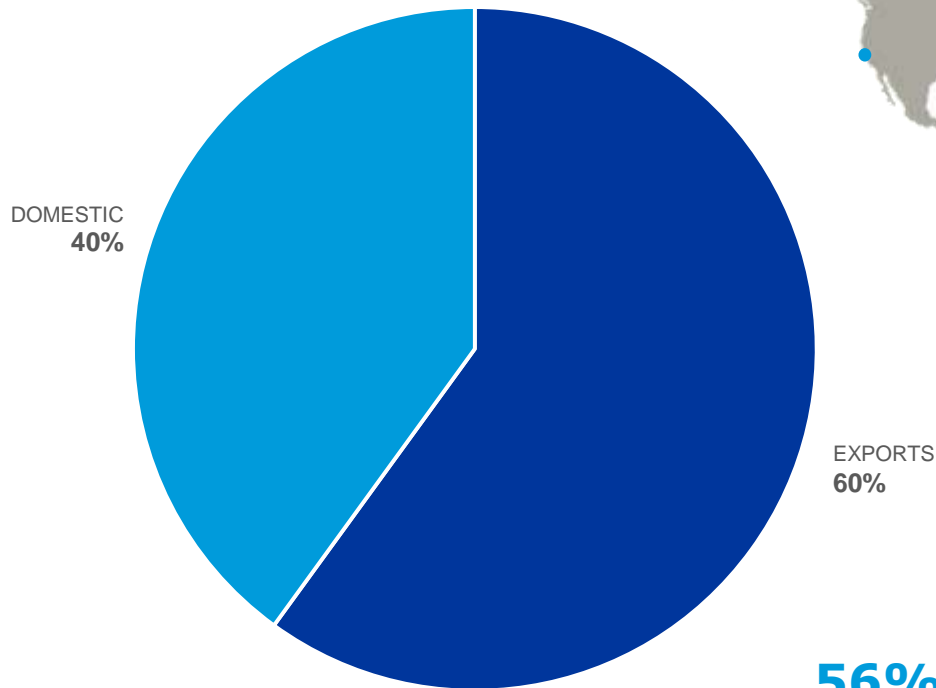
HIGH-TECH
INDUSTRY
41%

Our products are used
in a great variety of applications.

We are mainly focused in the
international Transportation,
High-Tech Machinery, Energy
and Extreme Environments
market segments.

Territory

Broad Network of Partners
Global presence – 40 countries



27 DISTRIBUTORS

56% EXPORT SALES THROUGH DISTRIBUTION CHANNEL

Services



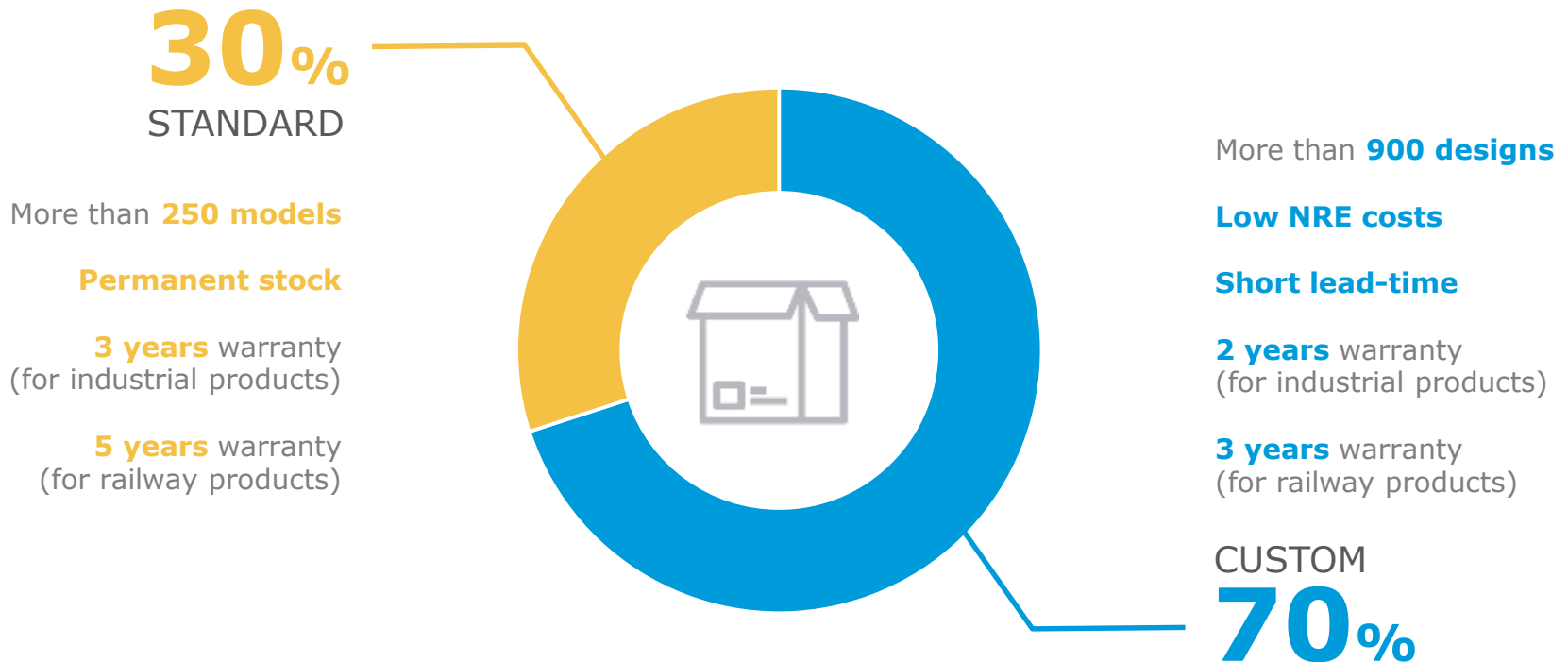
40 years experience

100% products verified

31k units delivered
in 2020

After-Sales Service

Products and Solutions





Standard Products

Standard Products



DC UPS

100W ... 500W

EDT-150

Web server, web services and HTTP

DC/AC INVERTERS

1Ph – 180W ... 4kW
3Ph – 1.1kW ... 6kW
(Scalable up to 24kW
in parallel operation)

ODX-3000

3000W – 4500W – 3Ph

DC/DC CONVERTERS

60W ... 2kW

CRS-1000

1000W – up to 93% efficiency

Standard Products DC/DC Converters


CCS-60

**CRS-60
CTS-60**

**CRS-120
CTS-120**

**CRS-240
CTS-240**

CRS-500

CRS-1000

Power	50-70W	50-70W	100-140W	180-280W	500W	1000W
Vin	12, 24, 36, 48, 72, 110Vdc	12, 24, 36, 48, 72, 110Vdc	12, 24, 36, 48, 72, 110, 220Vdc	12, 24, 36, 48, 72, 110, 220Vdc	24, 36, 48, 72, 110Vdc	24, 36, 48, 72, 110Vdc
Vout	5, 12, 24, 48Vdc	5, 12, 24, 48Vdc	5, 12, 24, 48Vdc	5, 12, 24, 48Vdc	24, 48, 110Vdc	24, 48, 72, 110Vdc
Cooling	Natural	Natural	Natural	Natural	Natural	Natural, conduction, internal forced air
Other features	Low profile	-25°C to 70°C	Remote inhibit -25°C to 70°C	Remote inhibit -25°C to 70°C	ORing	ORing Output failure alarm

NEW


CVS-280

280W DC/DC LOW BATTERY VOLTAGE STARTER

- Power: 280W (400W pk.)
- Vin: 400..1100Vdc (4,5kV pk.)
- Vout: 24, 48, 72 y 110Vdc
- LED Indicators: In & Out Ok
- Overtemperature shutdown
- Cooling: Natural convection
- Redundancy: optional ORing
- In/Out isolation: 7000Vac
50Hz 1 min

APPLICATIONS

- ECM
- Energy/ Smartgrid

Standard Products DC/AC Inverters



OCS260



ODS750



ODS1500



ODS3000



ODX1300



ODX3000

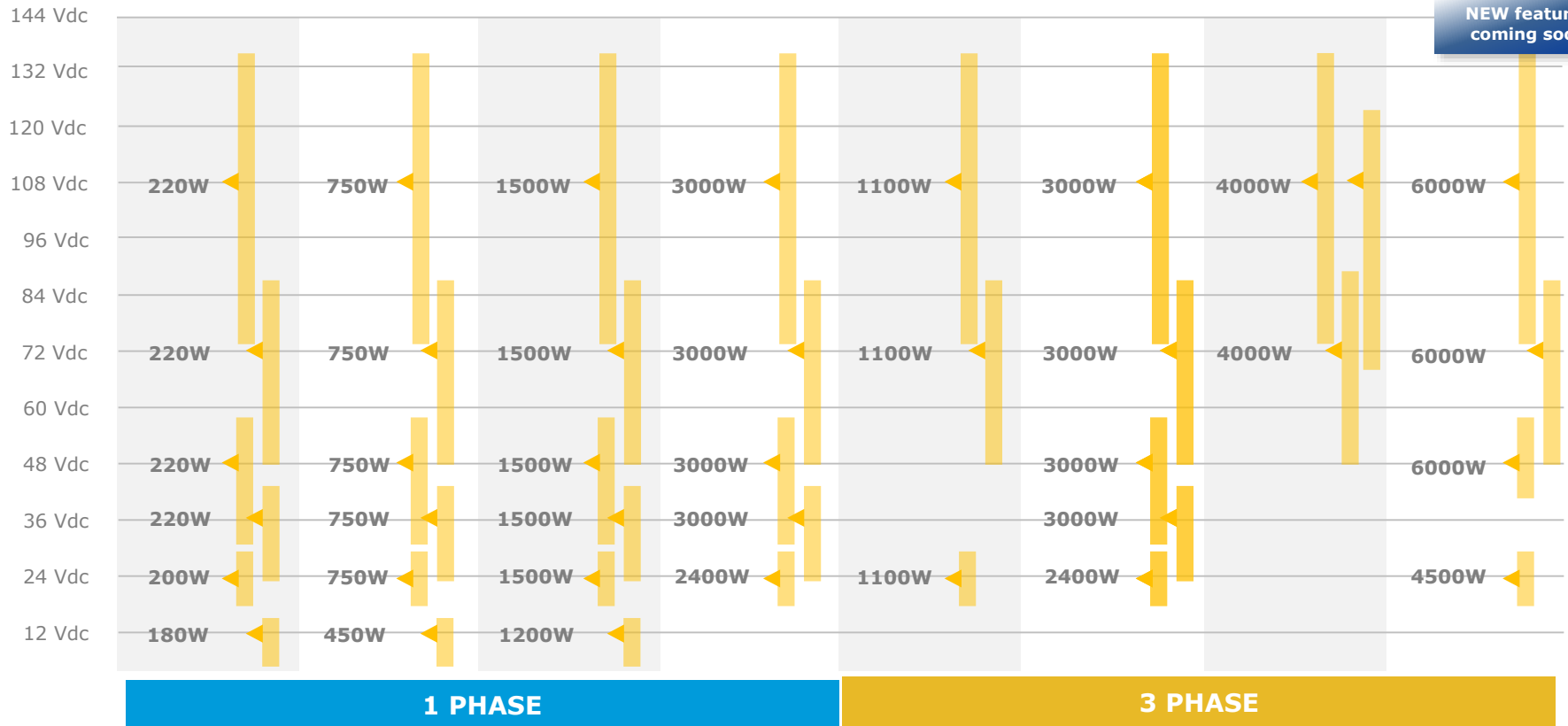


ODX4500



ODX6000

**NEW features
coming soon**



PARAMETER SETTING AND MONITORIZATION TOOL

Standard Products AC/DC UPS Battery Chargers


ECS-100

ECS-200

EPS-120

EPS-200

EDT-150

Power	100W	200W	120W (180wpk)	200W (400wpk)	150W (275wpk)
Vin	90 – 264Vac 50/60Hz	90 – 264Vac 50/60Hz	184 – 265Vac 50/60Hz	184 – 265Vac 50/60Hz	184 – 265Vac 50/60Hz
Vout	12, 24, 48Vdc	12, 24, 48Vdc	48Vdc	48Vdc	1x12Vdc, 2x48Vdc
Cooling	Natural convection	Natural convection	Natural convection	Natural convection	Natural convection
Other features	Alarms: Battery low & supply fail	Alarms: Battery low & supply fail	In/Out Isolation: 10.000Vac Ethernet	In/Out Isolation: 10.000Vac Ethernet	Ethernet



EDS-500

500W DC UPS BATTERY CHARGER

- Power: 500W
- Vin: 90 – 264Vac 50/60Hz
- Vout: 12Vdc, 24Vdc y 48Vdc
- 3 charging levels(Flot, Fast, exp.)
- Cooling: Natural convection
- BAT Temperature Sensor (optional)
- Alarms
- In/Out Isolation: 3000Vac
50Hz 1 min
- Communications: RS232 (Eth)
- Redundancy

APPLICATIONS

- Emergency systems
- Energy/substation
- Telecommunications
- Moving Robotics



Custom Solutions

Design Typology



Standard product
100% created &
developed by Premium's
R&D and sales teams



Custom product 100%
based on customer
specifications



Custom product based on
standard product
(modification)

Custom-made solutions

After 40 years in the market, we have a custom product database of over 900 designs

We are able to design from scratch and design following strict specifications for a wide variety of applications.

Technical capabilities



Power from 50W up to 50kVA
(very high power density, high frequency)



Ingres protection up to IP68



Efficiency up to **97%** (no isolated converters)
Efficiency up to **94%** (isolated converters)



Temperature range: **-50... 85°C**
Cooling: Forced air, convection, conduction



Input voltage up to **1kVac** (1-3Ph) or **1.5kVdc**
Output voltage up to **500Vac** (1-3Ph) or **750Vdc**



Up to 10kV isolation (surges of $\pm 20\text{kV}$
1,2/50 μs)



Multiple and Wide input and output voltajes
(e.g. 14,4...154V in railway apps)



RS232, RS485, I2C, Modbus, CANbus,
Ethernet, Web Embedded Server, Profibus,
etc.

Custom Solutions Examples



FARMING

**3 KW 48/325V
DC/DC converter**



DEFENSE

**7 output isolated
DC/DC converter
3ph w/o neutral**



ENERGY

**Battery charger
200W – 48Vout
10.000V
isolation**



MARINE

**1kW Xenon lamp
PSU**



INDUSTRIAL

**Pure sine-wave output
UPS on-line double
conversion type**



RAILWAY

**3ph 750VA invertir
2700 Vac isolation**



**3ph inverter
2500V AV
output-earth**



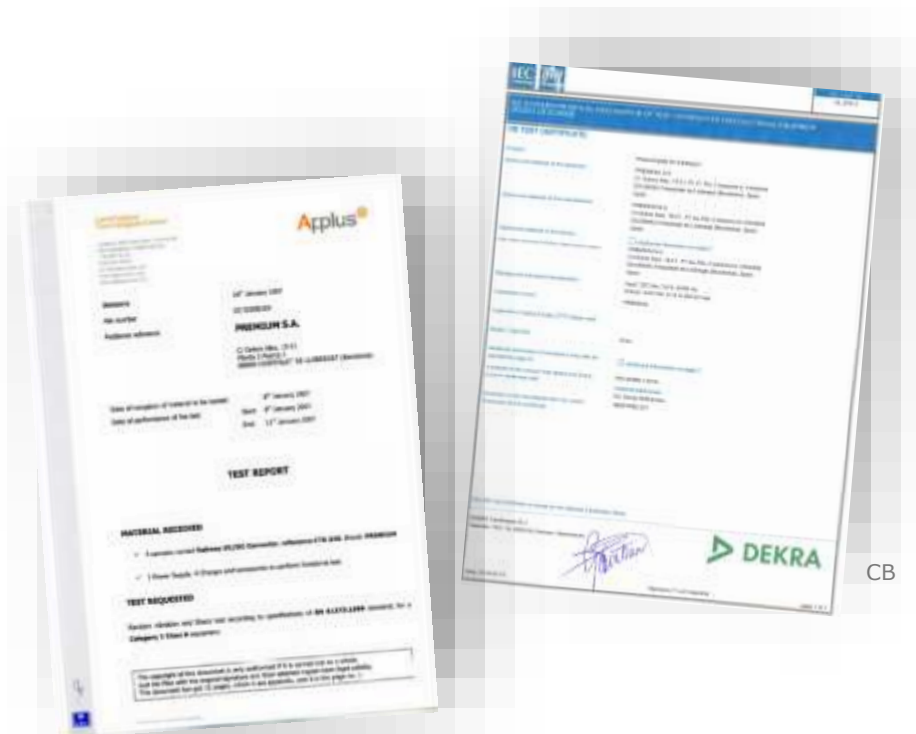
**1kW / 1.5kW /
2.1kW railway
battery charger**

Documentation

We provide a complete range of test reports and other information on request.

- Functional test report
- 3D Drawings
- EMC test report
- Stress review report
- Temperature test report
- HALT temperature test report
- Shock and vibrations test report
- CB test report and certificate
- Marine type test
- Schematics
- MTBF
- UL certificate

Please ask if you have other needs



Shock and vibrations
test report

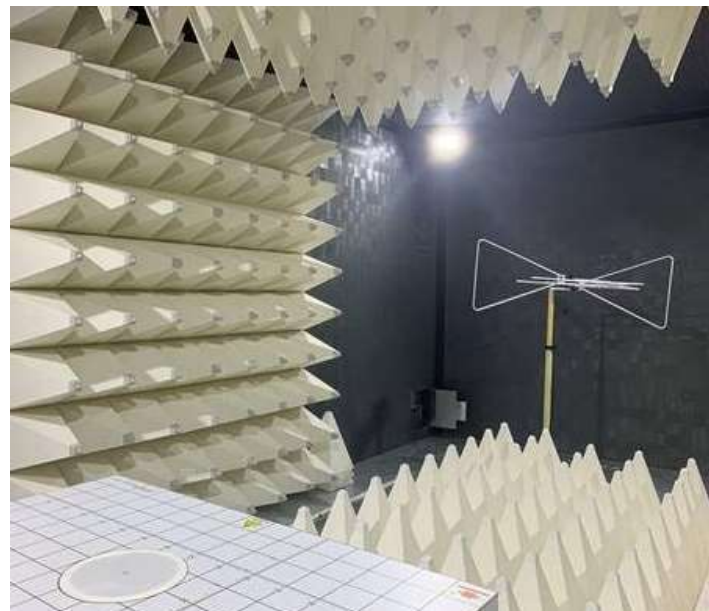


3D drawings

R&D+I Department

Testing available:

- Electrical and functional tests
- Climatic tests through a climatic chamber
- Electrical safety: insulation resistance tests and dielectric strength to ensure compliance with safety directives
- EMC tests: electromagnetic compatibility tests in our semi-anechoic chamber
- We also work with external laboratories when necessary



Facilities



Quality

- Our Quality Management System is certified according to the Standard UNE EN ISO9001 and has been recently integrated with the environmental standard ISO 14001, as a step forward in our commitment with the company's sustainability
- All series produced undergo a burn-in period, after which each unit is individually tested by an Automatic (computer-controlled) Test Equipment
- A printout report of the measurements obtained during the test is enclosed with each unit. The report is dated and identified by the serial number



Some of our Customers

ALSTOM

ASML

 Atlas Copco



CAF

 IBERDROLA

 indra

 KNORR-BREMSE

 ORMAZABAL

Schneider
Electric

SIEMENS

 ŠKODA
TRANSPORTATION

STADLER



Powering Your Challenge